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Environmental Protection Division
Water Quality & RCRA Group (ENV-RCRA)
P.O. Box 1663, MS K490
Los Alamos, New Mexico 87545
505-667-0666

National Nuclear Security Administration
Los Alamos Site Office, A316
3747 West Jemez Road
Los Alamos, New Mexico 87545
(505) 667-5794/FAX (505) 667-5948

Date: **SEP 17 2012**

Refer To: ENV-RCRA-12-0205

LAUR: 12-24477

Ms. Hannah Branning
U.S. Environmental Protection Agency (EPA), Region 6
Water Quality Protection Branch (6EN)
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dear Ms. Branning:

**SUBJECT: LOS ALAMOS NATIONAL LABORATORY, NPDES PERMIT NO. NM0028355,
NOTICE OF PLANNED CHANGE AT THE TECHNICAL AREA 50 (TA-50)
RADIOACTIVE LIQUID WASTE TREATMENT FACILITY**

The Department of Energy (DOE) and Los Alamos National Security, LLC (LANS) are submitting an updated Process Schematic for proposed treatment changes at the TA-50 Radioactive Liquid Waste Treatment Facility (RLWTF). The RLWTF is permitted to discharge to Outfall 051.

The RLWTF will be removing from service seven treatment and storage vessels and replacing them with alternate vessels on-site. Initial treatment by chemical addition to remove radioactivity and silica will take place in reaction tanks, not the existing clarifiers. In addition to pressure filters, a micro filter will be used to separate sludge from the liquid effluent. Enclosure 1 is the Process Schematic that shows the proposed treatment changes. Once the changes have been completed, an updated Outfall 051 Re-application Fact Sheet will be submitted to Ms. Claudia Hosch and Mr. Isaac Chen to reflect the updated treatment path.

Please contact Marc Bailey at (505) 665-8135 or Mike Saladen at (505) 665-6085 of the Water Quality and RCRA Group (ENV-RCRA) if you have questions.

Sincerely,



Anthony R. Grieggs
Group Leader
Water Quality & RCRA Group (ENV-RCRA)
Los Alamos National Security, LLC

ARG:GET/lm

Enclosures:

1. Proposed Process Schematic Changes at RLWTF

Cy: Isaac Chen, USEPA/Region 6, Dallas TX, w/enc.
James Hogan, NMED/SWQB, Santa Fe, NM, w/enc.
Robert George, NMED/GWQB, Santa Fe, NM, w/enc.
Jennifer Fullam, NMED/GWQB, Santa Fe, NM, w/enc.
Carl A. Beard, PADOPS, w/o enc., A102
Michael T. Brandt, ADESH, w/o enc., (E-File)
Alison M. Dorries, ENV-DO, w/o enc., (E-File)
Michael Saladen, ENV-RCRA, w/enc., (E-File)
Marc Bailey, ENV-RCRA, w/enc., (E-File)
Robert C. Mason, TA55 DO, w/enc., (E-File)
Clifford W. Kirkland, TA-55-RLW, w/enc., (E-File)
Chris Del Signore, TA-55-RLW, w/enc., (E-File)
Victor J. Salazar, TA-55-RLW, w/enc., (E-File)
Randal S. Johnson, ENV-ES, w/enc., (E-File)
IRM-RMMSO, w/enc., (E-File)
ENV-RCRA, Correspondence File, w/enc., K490

Sincerely,



Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
Los Alamos Site Office
U.S. Department of Energy

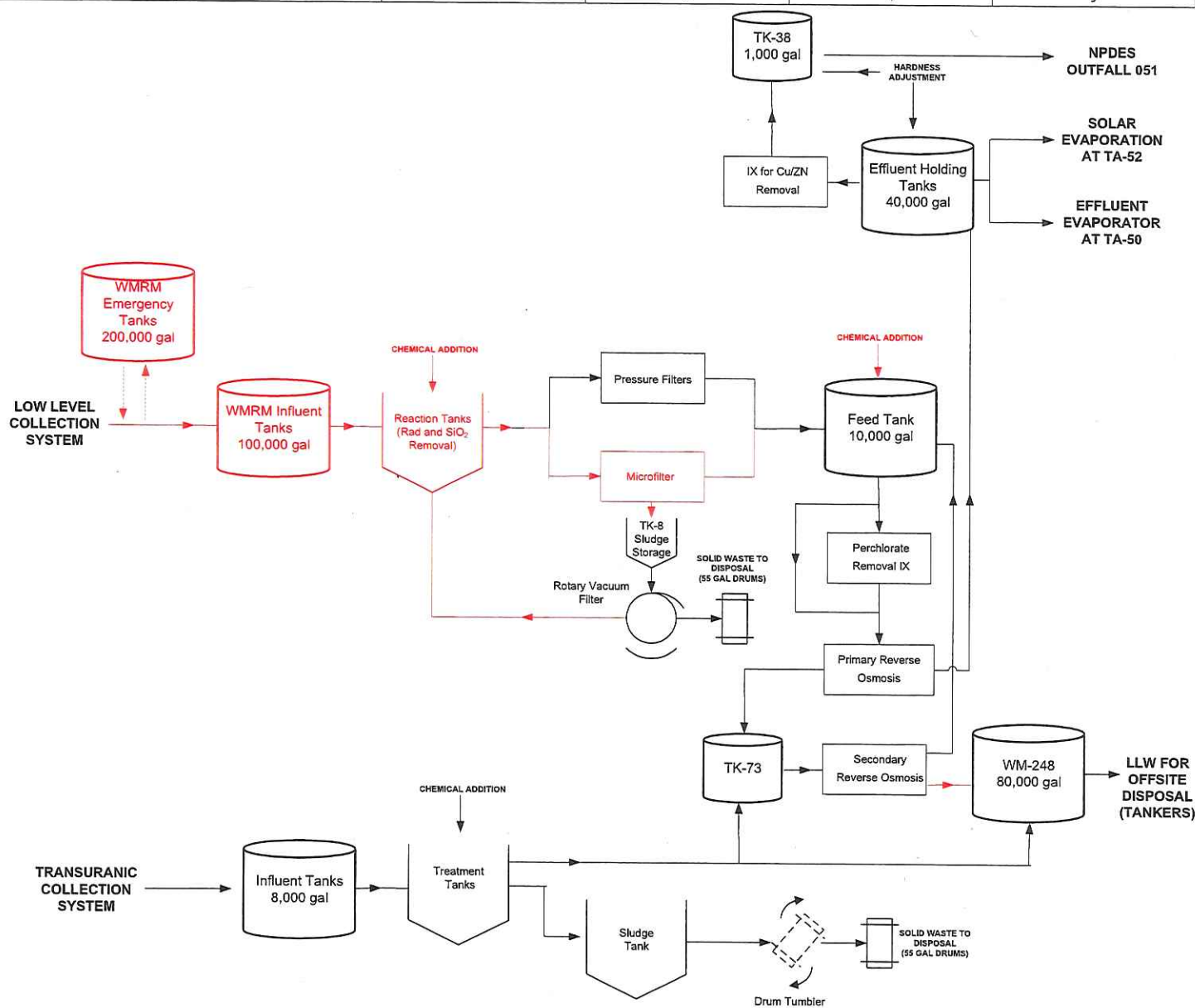
ENCLOSURE 1

Proposed Process Schematic Changes at RLWTF

ENV-RCRA-12-0205

LAUR-12-24477

Date: SEP 17 2012



General Notes

NOTES:

THIS PROCESS SCHEMATIC DEPICTS TYPICAL FLOW PATHS WHEN TREATING WATER AT THE TA50 RLWTF. ACTUAL TREATMENT MAY VARY DEPENDING UPON WATER QUALITY. FOR EXAMPLE, WATER FROM THE CLARIFIER MAY BE SENT TO EITHER THE GRAVITY FILTER OR THE PRESSURE FILTERS, THUS BYPASSING A SET OF FILTERS. OR PERMEATE FROM THE SECONDARY RO UNIT MAY BE SENT TO EFFLUENT HOLDING TANKS RATHER THAN TO THE PERCHLORATE FEED TANK.

3	05/15/2012	3	U	CHANGES FOR BRIDGING PROJECT	JCR	JCDS	RLS	RLS
2	01/11/2012	2	U	CHANGES FROM DISCHARGE PERMIT MTNG	JCR	JCDS	RLS	RLS
1	10/31/2011	1	U	CHANGES FROM WQH - RLW MEETING	JCR	JCDS	RLS	RLS
No.	Date	Class	Rev	Description	DFT	CHK	CSE	APP

ENGINEERING STANDARDS PROGRAM

Radioactive Liquid Waste Treatment Facility (RLWTF)

PROCESS SCHEMATIC
NPDES OUTFALL 051
POST GROUND WATER
PERMIT MODS

DRAFTER J. Ruiznavarro
CHECKER J.C. Del Signore
EGR/DME R. Swickley
Date 10/31/2011

SUBMITTED RLWTF EM	APPROVED FOR RELEASE RLWTF OAR
R. Swickley	R. Swickley
Los Alamos National Laboratory Los Alamos, NM 87545	
RLWTF-SD-PFD-001 1 OF 1	
CLASSIFICATION UNCLASSIFIED	DATE 10/31/2011
PROJECT ID N/A	REV. 3